

*Amendments to the Claims*

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently amended) ~~[[A]]~~ An isolated and purified polynucleotide selected from the group consisting of:

(a) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO: 2 ~~or~~ 4;

(b) a polynucleotide comprising ~~a coding region of~~ the nucleotide sequence of corresponding to position 80 to 1924 in SEQ ID NO: 1 ~~or~~ 3; and

(c) a polynucleotide comprising ~~[[a]]~~ the nucleotide sequence ~~encoding a protein having binding activity to afadin or actinin and comprising the amino acid sequence of SEQ ID NO: 2 or 4, in which the amino acids are substituted, deleted, inserted and/or added; and~~ with at least 95% homology to the nucleotide sequence corresponding to position 80 to 1924 in SEQ ID NO: 1 which have the binding activity to afadin and/or actinin

(d) ~~a polynucleotide which hybridizes under stringent conditions with a DNA comprising the nucleotide sequence of SEQ ID NO: 1 or 3 and which encodes a protein having binding activity to afadin or actinin.~~

2. (Withdrawn)

3. (Original) A vector into which the polynucleotide of claim 1 is inserted.

4. (Currently amended) ~~[[A]]~~ An isolated and purified host cell ~~carrying transformed with the polynucleotide of claim 1 or a vector into which the polynucleotide of claim 1 is inserted.~~

5. (Original) A method for producing the polypeptide encoded by the polynucleotide of claim 1, comprising the steps of culturing a host cell expressively carrying either said polynucleotide or a vector into which said polynucleotide is inserted, and recovering the produced polypeptide from said host cell or culture supernatant thereof.

6. (Currently amended) ~~[[A]]~~ An isolated and purified polynucleotide ~~which specifically hybridizes under highly stringent conditions to the polynucleotide of claim 1~~ and which comprises at least 15 nucleotides of claim 1.

7. (Withdrawn)

8. (Withdrawn)

9. (Withdrawn)

10. (Withdrawn)

11. (Withdrawn)

12. (Withdrawn)

13. (Withdrawn)

14. (Original) The polynucleotide of claim 1, wherein said polynucleotide is the polynucleotide of (a).

15. (Original) The polynucleotide of claim 1, wherein said polynucleotide is the polynucleotide of (b).

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Withdrawn)

20. (Withdrawn)

21. (Withdrawn)

22. (Withdrawn)

23. (New) An isolated and purified host cell transformed with the vector of claim 3.